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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.		
10/673,229	09/30/2003	Yoshifumi Tokoyoda	XA-9943 1588			
181 7	81 7590 12/30/2004			EXAMINER		
MILES & ST	OCKBRIDGE PC	ASSAF, FAYEZ G				
1751 PINNAC	LE DRIVE					
SUITE 500			ART UNIT	PAPER NUMBER		
MCLEAN, V	A 22102-3833		2872			

DATE MAILED: 12/30/2004

Please find below and/or attached an Office communication concerning this application or proceeding.

					UN				
		Applica	ation No.	Applicant(s)					
Office Action Summary		10/673	,229	TOKOYODA ET A	L.				
		Examir	ier	Art Unit					
			G. Assaf	2872					
The MAILING DATE of this communication appears on the cover sheet with the correspondence address Period for Reply									
A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION.  - Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.  - If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely.  - If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.  - Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).									
Status									
1)	Responsive to communication(s) filed	d on							
2a) <u></u>									
3)	·—								
	closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213.								
Dispositi	ion of Claims								
4)⊠	Claim(s) 1-20 is/are pending in the a	pplication.							
	4a) Of the above claim(s) is/are withdrawn from consideration.								
5)[	) Claim(s) is/are allowed.								
6)⊠	☑ Claim(s) <u>1,2,7-9 and 14-20</u> is/are rejected.								
· ·	☑ Claim(s) <u>3-6 and 10-13</u> is/are objected to.								
8)□	8) Claim(s) are subject to restriction and/or election requirement.								
Applicati	ion Papers								
9)[	The specification is objected to by the	Examiner.							
10)⊠	∑ The drawing(s) filed on 30 September 2003 is/are: a) accepted or b) objected to by the Examiner.								
	Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).								
	Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).								
11)	The oath or declaration is objected to	by the Examiner.	Note the attached Office	Action or form PT	O-152.				
Priority ι	under 35 U.S.C. § 119								
	Acknowledgment is made of a claim f  All b) Some * c) None of:  1. Certified copies of the priority of  2. Certified copies of the priority of  3. Copies of the certified copies of application from the Internation	documents have be documents have be of the priority documents	een received. een received in Applicati ments have been receive	ion No	Stage				
* 5	* See the attached detailed Office action for a list of the certified copies not received.								
Attachmen			_						
	ce of References Cited (PTO-892)	TO 048)	4) Interview Summary Paper No(s)/Mail Da		÷				
3) 🛛 Inforr	ce of Draftsperson's Patent Drawing Review (PT mation Disclosure Statement(s) (PTO-1449 or F er No(s)/Mail Date <u>9/30/03</u> .			Patent Application (PTO	-152)				

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#### DETAILED ACTION

## Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

Claims 1, 2, 7-9 and 14-20 are rejected under 35 U.S.C. 103(a) as being unpatentable over Fujimoto (JP 2002-048906) in view of Nakabayashi (US 2003/0112515 A1).

Fujimoto discloses a diffractive optical element comprising: a first diffractive element (2 of Fig. 4), a second diffractive (4 of Fig. 4) element that is made of a material different from the first diffractive element and is cemented with the first diffractive element, and a diffraction grating formed on the cemented surface (3 of Fig. 4), wherein the grating has a shade (7 of Fig. 4). Fujimoto discloses the claimed invention except for the shade being formed on a wall surface in each groove of the diffraction grating.

However Nakabayashi discloses such a shade (11 of Fig. 6C).

It would have been obvious, at the time the invention was made, to a person having ordinary skill in the art to adapt the method of forming the shade onto the wall surface of the grating in the invention of Fujimoto since the method of Nakabayashi is easier to perform.

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The examiner notes that selection of well known optical materials does not serve as basis for patentability.

It would have been obvious to one having ordinary skill in the art at the time the invention was made to make use of the disclosed optical materials, since it have been held to be within the ordinary skill of worker in the art to select a known material on the basis of its suitability for the intended use. One would have been motivated to use glass, glass molding or resin for because of their suitability and durability.

Sinclair & Carroll Co. v. Interchemical Corp., 325 U.S. 327, 65 USPQ 297 (1945).

### Allowable Subject Matter

Claims 3-6, and 10-13 are objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims.

Claims 3-6, and 10-13 are allowable over the prior art for at least the reason that the prior art fails to teach or reasonably suggest One of the two diffractive elements satisfying the following two conditional equations as set forth the claimed combination.

## Conclusion

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Any inquiry concerning this communication or earlier communications from the examiner should be directed to Fayez G. Assaf whose telephone number is (571) 272-2307. The examiner can normally be reached on 8-5 M-F.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Drew Dunn can be reached on (571) 272-2312. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

FA

12/27/04

FAYEZ G. ASSAF PRIMARY EXAMINER